

ANANYA GUPTA

(+65) 85755248 | ananyagupta99200@gmail.com | [linkedin.com/in/ananyagupta8576](https://www.linkedin.com/in/ananyagupta8576) | [ananya8576.github.io](https://github.com/ananya8576)

WORK EXPERIENCE

IT Engineer | Micron Technology

Jul 2024 - Present

- Pioneered GenAI for Micron IT as the AI Lead, designing, building, globally scaling the organization's AI initiatives, and representing the IT department with AI strategy and roadmap at CEO-level; championed global adoption and governance.
- Drove more than 50% productivity gains over last 5 years through multi-model agents and intelligent troubleshooting using various state-of-the-art models and frameworks.
- Led cross-functional AI program, deploying 10+ production agents used daily across all manufacturing sites
- Built and deployed enterprise-wide visualization dashboards used across all MFG sites, in platforms like Splunk, PowerBI and Tableau, improving decision visibility and accelerating operational excellence
- Drove inventory management acceleration (+60% throughput) via automation and workflow redesign across multiple tracks.
- Built automation workflows across IT and finance operations for L3 engineering including global windows server administration while leading infrastructure operations for one of the largest data center operations, ensuring high-availability, and performance.

Data/ML Intern | Warden (stealth-mode)

Jan 2024 - Mar 2024

- Built Large Language Model (LLM) for extracting and summarising important financial information with Typescript to make recommendations for document functionality with a front-end interface through node.js, yarn, Docker for the end-users.

Data Science Intern | Oversea-Chinese Banking Corporation, Limited (OCBC)

May 2023 - Dec 2023

- Built ETL tools and automation algorithms using Python, SQL, Visual Basic, SAS programs, to improve efficiency by 200%.
- Deployed Tableau dashboards end to end from data ingestion to user-centric, real-time visualisations for consumer segments.

Data Analysis and Operations Intern | Nugit

Dec 2021 - Jul 2022

- Analysed and visualized raw CSV files and APIs to create interactive reports for clients like J&J, Kellogg's using Tableau and R.
- Achieved 91% client renewal rate by data cleaning, conducting back-end, front-end checks for accuracy and seamless ingestion.

EDUCATION

National University of Singapore (NUS)

Aug 2020 - May 2024

Bachelor of Science (Honours)

Singapore

- Major in Data Science and Analytics with Second Major in Innovation and Design
- **Academic Achievements:** Dean's List for 2023/24 Semester 1, Academic Donated Bursary Award 2021
- **Leadership:** NUS Statistics and Data Science Society - Vice President, NUS GRC Group - Marketing Director

COURSE PROJECTS

Verifying Authenticity: Identifying Scams and Fakes in Online Dating (Python, CV, ML)

Feb 2024 - Apr 2024

- Developed a model to identify scam online profiles using image and textual data to mitigate the financial and emotional risks posed at victims. Achieved an accuracy of 96% and working further to enhance its practical use.

Enhancing Natural Language Inference with AI-Generated Explanations (Python, NLP, LLM)

Feb 2024 - Apr 2024

- Trained various versions of GPT-2 Models to compare the effectiveness of machine-generated explanations against human-annotated explanations in enhancing the NLI tasks using metrics like accuracy, precision, F1-score, and BLEU score.

Transaction Simulation Model for Construcshare (Python, API, Git, Docker)

Feb 2023 - Apr 2023

- Developed an agent-based simulation model (ABM) in Python from scratch, to mimic the e-commerce transactions at Construcshare, simulating how feature changes affect the website engagement and interaction for evaluating current strategies.

Post-discharge information management (Java, React.js, CSS, HTML, Firebase)

Jan 2022 - Dec 2022

- Built a web-application and creation tool, using React.js and Firebase database, that extracts data from the hospital database and organises it to make information accessible to patients, avoiding delayed, incomplete or complex information dispersal.

Text Summarisation and Simplification (Python, MLOps)

Feb 2022 - Apr 2022

- Trained various machine learning models like RNN, LSTM, Transformer, GRU in Python, to compare the output from different research papers using quantitative metrics like precision and recall, followed by qualitative metrics like brevity.

2-Factor Authentication App - Orbital Project 2021 (PostgreSQL, CSS, HTML, JavaScript)

May 2021 - Aug 2021

- Built a 2-FA Password Manager using SQL, CSS, HTML, JavaScript, to securely store & auto-fill passcodes with single click.

TECHNICAL SKILLS

- **Programming Languages:** Python, C Sharp, R, SQL, SAS, Java, TypeScript
- **Data Science Tools:** Jupyter, MATLAB, Tableau, PowerBI, React.js, Git, Docker, Apache Hadoop, Apache Spark
- **Database Platforms:** AWS, PostgreSQL, MSSQL, Firebase, Sisence, FiveTran, Oracle
- **Additional data-driven skills:** Data Analysis, Data Visualisation, ML, AI, Data Wrangling, Web Development, NLP, CV